

Comparisons of Job Characteristics

Focus Occupation: **Boilermakers (47-2011)**

Associated Occupation: **Electricians (47-2111)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Boilermakers (47-2011)

Associated Occupation: Electricians (47-2111)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	16.5	17.5	0	Current knowledge level may be sufficient
Building and Construction	4.0	14.6	13.8	0	Current knowledge level may be sufficient
Mathematics	9.2	14.5	10.8	<<	Extensive education and/or training may be required
Design	5.2	13.4	11.9	<	Expanded education and/or training may be required
Administration and Management	8.4	12.2	8.3	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	11.8	12.6	0	Current knowledge level may be sufficient
Physics	4.3	10.9	7.6	<<	Extensive education and/or training may be required
Telecommunications	3.9	10.4	2.8	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 71

Focus Occupation: Boilermakers (47-2011)

Associated Occupation: Electricians (47-2111)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Troubleshooting	4.5	12.3	9.6	<	A higher skill level may be required
Repairing	3.4	11.6	9.2	<	A higher skill level may be required
Quality Control Analysis	5.9	11.0	10.6	0	Current skill level may be sufficient
Equipment Maintenance	3.5	10.3	9.3	<	A higher skill level may be required

Installation	1.7	9.4	3.3	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	8.4	8.0	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Boilermakers (47-2011)

Associated Occupation: Electricians (47-2111)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Visual Color Discrimination	6.4	12.8	6.0	<<	Extensive improvement in abilities may be required
Visualization	7.5	12.2	10.2	<	Some improvement in abilities may be required
Finger Dexterity	7.6	11.8	10.3	<	Some improvement in abilities may be required
Extent Flexibility	4.8	10.4	8.7	<	Some improvement in abilities may be required
Gross Body Equilibrium	3.2	8.2	6.6	<	Some improvement in abilities may be required
Speed of Limb Movement	3.2	6.6	4.8	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	5.9	4.8	<	Some improvement in abilities may be required
Sound Localization	2.2	5.3	3.8	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 65

Focus Occupation: Boilermakers (47-2011)

Associated Occupation: Electricians (47-2111)

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Fabricate, assemble, or disassemble manufactured products by hand	11
Install or replace meters, regulators, or related measuring or control devices	66
Move or fit heavy objects	8
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read technical drawings	7
Repair or adjust measuring or control devices	71
Use hand or power tools	2

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 79

Focus Occupation: Boilermakers (47-2011)
Associated Occupation: Electricians (47-2111)

Tools and Technologies	Exclusivity
Aerial lifts	13
Business function specific software	1
Compressors	9
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Cutting tools	18
Face and head protection	7
Forming tools	2
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Light and wave generating and measuring equipment	4
Machine tools	7
Marking tools	11
Measuring and layout tools	3
Personal communication devices	2
Power tools	2
Pressure measuring and control instruments	10
Prying and bending tools	10
Respiratory protection	6
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Viewing and observing instruments and accessories	4
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.